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GenCore version 5.1.6  
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OW protein - protein search, using sw model

Run on: June 9, 2003, 07:08:10 ; Search time 146 Seconds  
(without alignments)  
266.586 Million cell updates/sec

Title: US-10-091-628-2  
Perfect score: 1979  
Sequence: 1-MRANSSSSACPNASSSEEL.....PGMDCHRALPVGHTSCE 377

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

ched: 392085 seqs, 103240269 residues

Total number of hits satisfying chosen parameters: 392085

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

No.	Score	Query Match	Length	ID	Description
1	1979	100.0	377	9	US-10-091-628-2
2	322.5	16.3	438	9	US-10-091-628-5
3	268.5	13.6	335	9	US-09-738-626-4892
4	264.5	13.4	324	9	US-09-738-626-6054
5	142	7.2	65	10	US-09-864-761-46433
6	114	5.8	372	12	US-09-966-871-80
7	114	5.8	372	12	US-10-039-645-80
8	113.5	5.7	772	10	US-09-935-799A-2
9	113.5	5.7	772	10	US-09-935-799A-5
10	105	5.3	324	9	US-09-738-626-6686
11	104.5	5.3	687	10	US-09-529-063-73
12	103.5	5.2	304	9	US-09-738-626-6200
13	103.5	5.2	557	9	US-10-120-604-100
14	103.5	5.2	687	9	US-10-120-604-6
15	103.5	5.2	687	12	US-10-011-370-2
16	103	5.2	697	9	US-09-989-919-108
17	103	5.2	1146	10	US-09-824-734-2
18	102.5	5.2	734	9	US-09-738-626-4227
19	101	5.1	370	10	US-09-823-114-21

20	99.5	5.0	387	1	US-08-899-112-30	Sequence 30, Appl
21	99.5	5.0	387	9	US-09-966-762A-17	Sequence 17, Appl
22	99.5	5.0	387	9	US-10-212-980-10	Sequence 10, Appl
23	98.5	5.0	387	9	US-10-228-264-4	Sequence 4, Appl
24	98.5	5.0	344	10	US-09-992-647-12	Sequence 12, Appl
25	98.5	5.0	391	10	US-09-815-242-11566	Sequence 11566, A
26	98	5.0	493	10	US-09-815-242-5498	Sequence 5498, Ap
27	98	5.0	494	10	US-09-815-242-12410	Sequence 12410, A
28	98	5.0	544	9	US-09-738-626-3927	Sequence 3927, Ap
29	98	5.0	544	10	US-09-948-777-2	Sequence 2, Appl
30	98	5.0	835	9	US-10-120-604-138	Sequence 138, App
31	98	5.0	2115	9	US-10-208-948-4	Sequence 27, Appl
32	98	5.0	2150	9	US-10-208-948-27	Sequence 4, Appl
33	97.5	4.9	693	9	US-09-978-235A-483	Sequence 483, App
34	97.5	4.9	693	9	US-09-978-697-483	Sequence 483, App
35	97.5	4.9	693	9	US-09-978-132A-483	Sequence 483, App
36	97.5	4.9	693	9	US-09-999-832A-483	Sequence 483, App
37	97.5	4.9	693	9	US-09-978-189-483	Sequence 483, App
38	97.5	4.9	693	9	US-10-028-072-406	Sequence 406, App
39	97.5	4.9	693	9	US-10-121-049-406	Sequence 406, App
40	97.5	4.9	693	9	US-10-123-904-406	Sequence 406, App
41	97.5	4.9	693	9	US-10-140-470-406	Sequence 406, App
42	97.5	4.9	693	9	US-10-175-746-406	Sequence 406, App
43	97.5	4.9	693	9	US-10-176-918-406	Sequence 406, App
44	97.5	4.9	693	9	US-10-176-921-406	Sequence 406, App
45	97.5	4.9	693	9	US-10-227-884-134	Sequence 134, App

## ALIGNMENTS

RESULT 1  
US-10-091-628-2  
Sequence 2, Application US/10091628  
Patent No. US20020164627A1  
GENERAL INFORMATION:  
APPLICANT: Wilgowski, Nathaniel L.  
APPLICANT: Nepomichy, Boris  
APPLICANT: Burnett, Michael B.  
APPLICANT: Hu, Yi  
TITLE OF INVENTION: No. US20020164627A1 Human Transporter Proteins and Polynucleoti  
TITLE OF INVENTION: Same  
FILE REFERENCE: LEX-0314-USA  
CURRENT APPLICATION NUMBER: US/10/091,628  
CURRENT FILING DATE: 2002-03-06  
PRIOR APPLICATION NUMBER: US 60/275,009  
PRIOR FILING DATE: 2001-03-12  
PRIOR APPLICATION NUMBER: US 60/284,152  
PRIOR FILING DATE: 2001-04-17  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 377  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-091-628-2

Query Match 100.0%; Score 1979; DB 9; Length 377;  
Best Local Similarity 100.0%; Pred. No. 2.1e-173;  
Matches 377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRANSSSSACPNASSSEELPVGLVHGNLELFTVVSITVMGILMFGSVEIRKWS 60  
DB 1 MRANSSSSACPNASSSEELPVGLVHGNLELFTVVSITVMGILMFGSVEIRKWS 60  
QY HIRPWGIVAGILCOFGIMPTAYLLAISFSLKPVQALVAVIMGCCPGGTSINFTFVWD 120  
DB HIRPWGIVAGILCOFGIMPTAYLLAISFSLKPVQALVAVIMGCCPGGTSINFTFVWD 120  
QY 61 HIRPWGIVAGILCOFGIMPTAYLLAISFSLKPVQALVAVIMGCCPGGTSINFTFVWD 120  
DB 61 HIRPWGIVAGILCOFGIMPTAYLLAISFSLKPVQALVAVIMGCCPGGTSINFTFVWD 120  
QY 121 GDMDISISMTTCSTYVAAIGMPLCIYLYTWSMSIQONLTIYQINIGITLVCLITPVAGV 180  
DB 121 GDMDISISMTTCSTYVAAIGMPLCIYLYTWSMSIQONLTIYQINIGITLVCLITPVAGV 180

[illegible]

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: APPLICANT: NAKAGAMA, SATOSHI
: APPLICANT: MIZOGUCHI, HIROSHI
: APPLICANT: ANDO, SEIKO
: APPLICANT: HAYASHI, MIKIRO
: APPLICANT: OCHIAI, KEIKO
: APPLICANT: YOKOI, HARUHIKO
: APPLICANT: TATEISHI, NAOKO
: APPLICANT: SENOH, AKIHIRO
: APPLICANT: IKEDA, MASATO
: APPLICANT: OZAKI, AKIO
: TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
: FILE REFERENCE: 249-125
: CURRENT APPLICATION NUMBER: US/09/738, 626
: PRIOR FILING DATE: 2000-12-18
: PRIOR APPLICATION NUMBER: JP 99/377484
: PRIOR FILING DATE: 1999-12-16
: PRIOR APPLICATION NUMBER: JP 00/159162
: PRIOR FILING DATE: 2000-04-07
: PRIOR APPLICATION NUMBER: JP 00/280988
: PRIOR FILING DATE: 2000-08-03
: NUMBER OF SEQ ID NOS: 7059
: SOFTWARE: PatentIn ver. 3.0
: SEQ ID NO 4892
: LENGTH: 335
: TYPE: PRT
: ORGANISM: Corynebacterium glutamicum
US-09-738-626-4892

Query Match      13.6%; Score 268.5; DB 9; Length 335;
Best Local Similarity 25.7%; Pred. No. 1.3e-16;
Matches 76; Conservative 72; Mismatches 127; Indels 21; Gaps 7

QY      31 ELVTVVSTV--MGLMLFSGCSVEIRKLSHRRPPIGAVGLLCGGMLPFTAYLAI 88
      :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB      40 DVVNISSWVNPVLGIIMFSMGLTLKPDVDFALVAKRPPLVIGVIAQFIMPLILLVW 99
QY      89 SFSLKPVQALVILMCGCCGGGTISNIFPEWGDGMDLSISMTTCTVAALGMPPICTLYL 148
      :::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB      100 VLQLEPAETIAAGVILGCAAPGGTSSNVSYLSRGDVALSVMTISITLAPITPLTL-- 157
QY      149 TWSMSLOQNLTPYONIGITLV-CLTIPFARGVYVNVKPKOSKILIKIGAVGVLLLV 207
      158 ---WLAGGYMLNADMAVSIQVVLIVVGGLVRLFP--TLIGKVLPLPMTSVIA 211
QY      208 VAVAGVVLAKS---WNSDTLLTSTIFPLIGHVTFPLALFTHQSWORKRTISLENG 263
      :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB      212 ISLVAIVVAGSRDRIKAGLLVLAIVYHNTLGSISGLYLAKEFGOPAAARRTAIEVG 271
QY      264 AONIQMCTMNLQSLPTAEHLVQMLSFLPA-YGLFQIDGFLIVAAVQYTKRRLKNK 318
      ||:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB      272 MON---SGLAAGLASQVMSFMSALPGAIRFSVWNTLSGALLAALCRASDKRAAEK 322

RESULT 4
US-09-738-626-6054
: Sequence 6054, Application US/09738626
: Publication No. US20020197605A1
: GENERAL INFORMATION:
: APPLICANT: NAKAGAMA, SATOSHI
: APPLICANT: MIZOGUCHI, HIROSHI
: APPLICANT: ANDO, SEIKO
: APPLICANT: HAYASHI, MIKIRO
: APPLICANT: OCHIAI, KEIKO
: APPLICANT: YOKOI, HARUHIKO
: APPLICANT: TATEISHI, NAOKO
: APPLICANT: SENOH, AKIHIRO
: APPLICANT: IKEDA, MASATO
: APPLICANT: OZAKI, AKIO
: TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
: FILE REFERENCE: 249-125
: CURRENT APPLICATION NUMBER: US/09/738, 626
: CURRENT FILING DATE: 2000-12-18
: PRIOR APPLICATION NUMBER: JP 99/377484

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